

**Segment Installation Procedures
Netscape Directory Server (NSDIRY)
Version 1.0.0.2/1.03 (HP-UX 10.20)**

November 10, 1997

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Preface

The following conventions are used in this document:

Bold	Used for information that is typed, pressed, or selected in executables and instructions. For example, select connect to host .
<i>Italics</i>	Used for file names, directories, scripts, commands, user IDs, document names, and Bibliography references; and any unusual computerese the first time it is used in text.
<u>Underline</u>	Used for emphasis.
Arrows <>	Used to identify keys on the keyboard. For example <Return>.
“Quotation Marks”	Used to identify informal, computer-generated queries and reports, or coined names; and to clarify a term when it appears for the first time. For example “Data-Generation Report.”
Courier Font	Used to denote anything as it appears on the screen or command lines. For example <code>tar xvf dev/rmt/3mm</code> .
Capitalization	Used to identify keys, screen icons, screen buttons, field, and menu names.

1. Installation Procedures for Netscape Directory Server

1.1 Scope

These Installation Procedures (IP) provide a quick reference for installing the Netscape Directory Server (NSDIRY) segment for the Defense Information Infrastructure (DII) on Hewlett-Packard (HP)-based machines.

1.1.1 Identification

This section contains identification information for the NSDIRY segment:

Segment Name:	Netscape Directory Server
Segment Type:	COTS:COE CHILD
Prefix:	NSDIRY
Home Directory:	<i>/h/COTS/NSDIRY</i>
Required License:	Netscape Directory Server License
Version Number:	1.0.0.2/1.03
Platform:	HP (UNIX) Workstation/HP-UX 10.20

1.1.2 System Overview

This section contains system overview information for the NSDIRY segment:

Purpose:	NSDIRY is a directory server application produced by Netscape Communications Corporation that manages the storing of and access to directory information. Access to the directory is performed with the lightweight directory access protocol (LDAP).
Usage:	NSDIRY can be used to host and transmit news articles between DII teleconferencing sites.
References:	“Netscape Directory Server - Installation and Reference Guide (UNIX)” from Netscape Communications Corporation (accompanies each licensed copy of the Netscape Directory Server). On-line documentation accompanies the software, and additional documentation can be downloaded from Netscape at http://www.netscape.com/ .

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2. Referenced Documents

“Netscape Directory Server - Installation and Reference Guide (UNIX)” from Netscape Communications Corporation (which accompanies each licensed copy of the Netscape Commerce Server).

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3. System Environment

3.1 System Requirements

3.1.1 Hardware Requirements

The following HP hardware is necessary to install the NSDIRY segment:

- C HP-UX 10.20
- C 37000 KB of disk space
- C 32000 KB of memory

3.1.2 Operating System Requirements

The HP operating system must be at least HP-UX 10.20 to install the NSDIRY segment.

3.1.3 Kernel Requirements

The following DII COE Kernel is required to install the NSDIRY segment:

DII COE Kernel V3.2 for HP-UX 10.20

3.2 System and Site Preparations

3.2.1 System Configuration

Enter the Netscape SuiteSpot Servers, PERL, and Netscape Directory Server segments in the COE Component Table (*/h/COE/data/Comp_Table*). Install the Netscape SuiteSpot Servers and PERL segments.

Depending upon the guidance offered by your engineering office, the machine upon which the directory server is being installed should get the domain name service (DNS) alias *ldap*. If your site is installing multiple directory servers, each should be aliased to *ldap*, as well as individually aliased to *ldap1*, *ldap2*, etc. This is not essential to the operation of the directory server, but is an important element in load balancing between servers and easing administrative duties.

3.2.2 Operation System Preparation

None.

3.2.3 Tape/Disk Preparation

None.

4. Installation Instructions

4.1 Media Booting Procedures

None.

4.2 Installation Procedures for the NSDIRY Segment

This section describes the procedures required to install the NSDIRY on DII HP machines.

NOTE:	The Netscape SuiteSpot Servers (SSpot) segment must be installed before installing the NSDIRY segment. If SSpot is not installed, the NSDIRY segment will not install correctly.
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Step 1:	To install the NSDIRY Segment, select the Netscape Directory Server label from the COEInstaller's Select Software to Install window and click the Install button.
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Step 2:	Enter the name of the SuiteSpot administrative user at the following prompt:
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Please enter the admin login name [admin] :

NOTE:	If you have previously installed one of the pre-version 3 SuiteSpot segments on this platform, then the admin user name has already been established and you must enter it here. If this is the first pre-version 3 SuiteSpot server segment to be installed (after the SuiteSpot segment itself, of course) then you are determining what the SuiteSpot administrator's name will be. It is recommended that you accept the default name (<i>admin</i>).
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Step 3:	Enter the password for the SuiteSpot <i>admin</i> user account at the following prompt:
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Please enter the admin password:

NOTE: If you have previously installed one of the pre-version 3 SuiteSpot segments on this platform, then the *admin* password has already been established and you must enter it here. If this is the first pre-version 3 SuiteSpot server segment to be installed (after the SuiteSpot segment itself, of course) then you are determining what the SuiteSpot login password will be. It must be at least six alphanumeric characters in length, and contain both letters and numbers.

NOTE: The directory server is installed in a configuration to support version 3 SuiteSpot administration. To this end, an entry is created in the directory with *uid* equal to “admin” and a password equal to the password entered for the SuiteSpot administrator.

Step 4: Every Directory Server has a “directory root user” (not to be confused with the Unix *root* user) who can bypass access control restrictions within the LDAP directory. This step allows the directory root user to be assigned a password. Enter a password of eight or more characters at the following prompt:

Enter the "Directory Manager" password:

Even if you intend to remove the directory root account eventually, you will need it initially to set up the directory.

Step 5: The software then attempts to determine the “distinguished name” that will identify the directory subtree served by this installation. Currently, the segment can only be installed on sites affiliated with the United States (U.S.). Answer **yes** at the following prompt:

Is your site affiliated with the United States?

Step 6: Currently, the segment can only be installed on U.S. Government sites (the installation procedure does not understand non-U.S. Government names). Answer **yes** at the following prompt:

Is your site affiliated with the United States Government?

Step 7: The installation software displays the other components of your server’s distinguished name for confirmation by the installer. If the installer enters “no” for any item, then the installation software asks the user to specify the organizational name of the site. Finally, the full *distinguished name* for the site is displayed for

confirmation. If not confirmed, the installer is allowed to specify the *distinguished name* in a prompt.

In order to correctly specify the *distinguished name*, the installer may require guidance from the engineering office that has jurisdiction over the installation (e.g., the Global Command and Control System [GCCS] Engineering Office, the Global Combat Support System [GCSS] Engineering Office, etc).

4.2.1 De-Installation Procedures

To de-install the NSDIRY segment, you must first remove any directory server instantiations from the platform via Netscape's Admin Server. To use the Admin Server, run a web browser and connect to `http://machine_name:5350/` (where *machine_name* is the name of the machine upon which the Directory Server is installed). Follow the on-line instructions for removing a server. Once all directory server instantiations are removed, then the segment will de-install via the COEInstaller.

4.3 Installation of Upgrades

None.

4.4 Installation Verification

To verify that this software has been installed, execute the following commands from the command line:

```
cd /h/COTS/SuiteSpot/ns-home-2/slapd-machineName/config
grep suffix slapd.conf
```

This will reveal the suffix that your server is serving. As an example, a suffix might be "ou=OSF, ou=DISA, o=USGov, c=US".

Then, execute the following:

```
cd /h/COTS/SuiteSpot/ns-home-2/bin/slapd/server
./ldapsearch -h machineName -b "suffix" "(objectclass=*)"
```

This should display the LDAP entry representing the organizational unit that your server is serving. For example:

```
dn=ou=OSF, ou=DISA, ou=DoD, o=USGov, c=US
```

```
objectclass=top
objectclass=organizationalUnit
ou=OSF
subtreeACI=+(&
    (|(privilege=read)(privilege=search)(privilege=compare))
    (!(targettype=userPassword))
)
creatorsname=cn=Directory Manager, ou=OSF, ou=DISA, ou=DoD,
o=USGov, c=US
modifiersname=cn=Directory Manager, ou=OSF, ou=DISA, ou=DoD,
o=USGov, c=US
createtimestamp=1997091314044Z
modifytimestamp=1997091314044Z
```

4.5 Initializing the Software

Not required.

4.6 List of Changes and Enhancements

Not applicable.

4.7 Important Considerations

Determining the distinguished name of the subtree handled by this server is important to the entire directory system (i.e., it is not only of concern to your site). Follow the guidelines established by your engineering office regarding the distinguished name of your site, DNS aliasing, and directory replication.

5. Notes

None.

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